



Form 1449 (Modified)	Atty Docket No. PLUSP039	Application No.: 10/772,228
Information Disclosure Statement By Applicant	Applicant: Visco, et al.	
(Use Several Sheets if Necessary)	Filing Date February 3, 2004	Group Not yet assigned

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub- class	Filing Date
GC	A1	5,648,187	07/15/97	Skotheim			
	A2	5,314,765	05/24/94	Bates			
	A3	4,981,672	01/01/91	De Neufville et al.			
	A4	6,025,094	02/2000	Visco, et al.			
	A5	5,342,710	08/30/94	Koksbang			
	A6	5,409,786	04/25/95	Bailey			
	A7	5,100,523	03/31/92	Helms et al.			
	A8	5,696,201	12/09/97	Cavalloni, et al.			
	A9	4,162,202	07/24/79	Dey			
	A10	5,455,126	10/03/95	Bates et al.			
	A11	5,338,625	08/16/94	Bates et al.			
	A12	5,597,660	01/28/97	Bates et al.			
	A13	5,612,152	03/18/97	Bates			
	A14	5,569,520	10/29/96	Bates			
	A15	5,512,147	04/30/96	Bates et al.			
	A16	5,567,210	10/22/96	Bates et al.			
	A17	5,455,126	10/03/95	Bates et al.			
	A18	6,475,677 B1	11/05/02	Inda et al.			
	A19	6,485,622 B1	11/26/02	Fu			
	A20	6,315,881 B1	11/13/01	Fu			
	A21	6,030,909	02/29/00	Fu			
	A22	5,702,995	12/30/97	Fu			
	A23	4,985,317	01/15/91	Adachi et al.			
	A24	6,402,795 B1	06/11/02	Chu et al.			
	A25	6,214,061 B1	04/10/01	Visco et al.			
	A26	6,413,284 B1	07/02/02	Chu et al.			
	A27	5,686,201	11/11/97	Chu			
	A28	6,376,123	04/23/02	Chu			
	A29	6,413,285 B1	07/02/02	Chu et al.			
	A30	6,183,901 B1	02/06/01	Ying et al.			
	A31	6,432,584 B1	08/13/02	Visco et al.			
	A32	5,961,672	10/05/99	Skotheim et al.			
	A33	5,387,479	02/07/95	Koksbang			
GC	A34	5,336,384	08/09/94	Tsou et al.			

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub- class	Translation	
							Yes	No
GC V	B1	0875951A1	11/04/98	EP				
	B2	0689260B1	04/21/99	EP				
GC	B3	0111214B1	11/23/83	EP				
	B4	0111213A2	11/23/83	EP				

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Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
GC V	C1	Nippon Telegr & Teleph Corp., "Patent Abstracts of Japan," vol. 008, no. 119 (E-248), June 5, 1984 & JP 59 031573 A, 20 February 1984.
	C2	"R&D Thin Film Technology", 09-97, <u>R&D Magazine</u>
	C3	Steven D. Jones, et al., "Thin film rechargeable Li batteries", 1994, <u>Solid State Ionics</u>
	C4	J.B. Bates, et al., "Thin-film rechargeable lithium batteries," 1995, <u>Journal of Power Sources</u>
	C5	N. J. Dudney, et al., "Sputtering of lithium compounds for preparation of electrolyte thin films," 1992, <u>Solid State Ionics</u>
	C6	J. B. Bates, et al., "Electrical properties of amorphous lithium electrolyte thin films," 1992, <u>Solid State Ionics</u>
	C7	Xiaohua Yu, et al, "A Stable Thin-Film Lithium Electrolyte: Lithium Phosphorus Oxynitride," 02-97, <u>J. Electrochem. Soc.</u> , Vol 144, No. 2
	C8	Fu, Jie, "Fast Li+ Ion Conduction in Li2O-Al2O3-TiO2-SiO2-P2O5 Glass-Ceramics", Journal of the American Ceramics Society, Vol. 80, No. 7, July 1997, pp. 1-5.
	C9	Aono et al., "Ionic Conductivity of the Lithium Titanium Phosphate (Li _{1-x} M _x Ti ₂ -x(PO ₄) ₃ , M = Al, Sc, Y, and La) Systems", Dept. of Industrial Chemistry, pp. 590-591.
	C10	Aono, Hiromichi, "High Li+ Conducting Ceramics", Acc. Chem. Res. Vol. 27, No. 9, 1994, pp. 265-270.
	C11	Aono, et al., "Ionic Conductivity and Sinterability of Lithium Titanium Phosphate System", Solid State Ionics, 40/41 (1990), pp. 38-42.
	C12	Aono, et al., "Electrical properties and crystal structure of solid electrolyte based on lithium hafnium phosphate LiHf ₂ (PO ₄) ₃ ", Solid State Ionics 62 (1993), pp. 309-316.
	C13	Aono, et al., "Electrical property and sinterability of LiTi ₂ (PO ₄) ₃ mixed with lithium salt (Li ₃ PO ₄ or Li ₃ BO ₃)", Solid State Ionics 47 (1991) pp. 257-264.
Examiner	/Gregg Cantelmo/	
Date Considered	11/21/2006	

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Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
GC	C14	Aono, et al., "Ionic Conductivity of β -Fe ₂ (SO ₄) ₃ Type Li ₃ Cr ₂ (PO ₄) ₃ Based Electrolyte", Chemistry Letters, 1993, pp. 2033-2036.
	C15	Aono, et al., "Ionic Conductivity of LiTi ₂ (PO ₄) ₃ Mixed with Lithium Salts", Chemistry Letters, 1990, pp. 331-334.
	C16	Fu, Jie, "Superionic conductivity of glass-ceramics in the system Li ₂ O-Al ₂ O ₃ -TiO ₃ -P ₂ O ₅ ", Solid State Ionics, 96 (1997), pp.195-200.
	C17	Fu, Jie, "Fast Li ⁺ ion conducting glass-ceramics in the system Li ₂ O-Al ₂ O ₃ -GeO ₂ -P ₂ O ₅ " Solid State Ionics 104 (1997), pp. 191-194.
	C18	Aono, et al., "DC Conductivity of Li _{1.3} Al _{0.3} Ti _{1.7} (PO ₄) ₃ " Ceramic with Li Electrodes", Chemistry Letters, 1991, pp. 1567-1570.
	C19	Aono, et al., "Electrical Properties of Sintered Lithium Titanium Phosphate Ceramics (Li _{1+x} M _x Ti _{2-x} PO ₄) ₃ , M ³⁺ =Al ³⁺ , Sc ³⁺ , or Y ³⁺)", Chemistry Letters, 1990, pp. 1825-1828.
GC	C20	Button, et al., "Structural disorder and enhanced ion transport in amorphous conductors", Solid State Ionics, Vols. 9-10, Part 1, December 1983, pp. 585-592 (abstract)
Examiner	/Gregg Cantelmo/	
	Date Considered	11/21/2006

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Application No.:
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Group
1745

Stamp: OIPE, OCT 31 2004, PATENT & TRADEMARK

U.S. Patent Documents

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Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
GC	C1	Nimon et al., "Stability of Lithium Electrode in Contact with Glass Electrolytes", SSI-14, June 22-27, 2003, Monterey, CA. (conference poster).
GC	C2	Nimon et al., "Stability of Lithium Electrode in Contact with Glass Electrolytes", SSI-14 Conference, Monterey, CA., June 22, 2003, Abstract of Poster.
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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub- class	Filing Date
GC	A	2002/0012846	01.31.02	Skotheim et al.			

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub- class	Translation	
							Yes	No
GC	B	WO 99/57770	11.11.99	PCT				

Other Documents

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Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub- class	Filing Date
GC	A1	2002/0034688	03.21.02	Chu et al.			

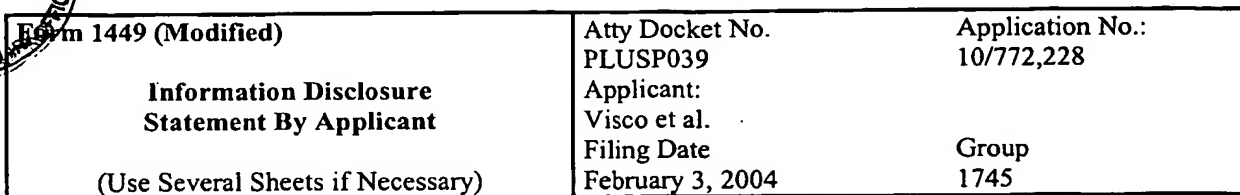
Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub- class	Translation	
							Yes	No
GC	B1	EP 1 162 675 A2	12.12.2001	European				
	B2	WO 02/50933 A2	27.06.2002	PCT				
	B3	WO 02/50933 A3	27.06.2002	PCT				
GC	B4	EP 0 838 441 A3	16.09.1998	European				

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
GC	C1	International Search Report dated October 18, 2005 from related International Application No. PCT/US2004/033372.
Examiner		Date Considered
/Gregg Cantelmo/		11/21/2006

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
GC	C1	Will, et al., "Primary Sodium Batteries with Beta-Alumina Solid Electrolyte", J. Electrochemical Science and Technology, April 1975, Vol. 122, No. 4, pages 457-461.
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U.S. Patent Documents

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~~Foreign Patent or Published Foreign Patent Application~~

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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
GC	C1	European Examination Report dated March 21, 2006 from related European Application No. 03809186.4. (PLUSP027EP)
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/Gregg Cantelmo/	11/21/2006	

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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
GC	A1	5,506,068	04.09.96	Dan et al.			
 							
 							
 							
 							
 							
 							
 							
 							
 							
 							

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
GC	B1	EP 1 162 675 A2	12.12.2001	European				
 								
 								
 								
 								

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
GC	C1	International Search Report dated March 6, 2006 from International Application No. PCT/US2004/033371. (PLUSP040WO)
 		
 		
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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
GC	A1	6,358,651	03.19.02	Chen et al.			
↓	A2	6,391,492	05.21.02	Kawakami et al.			
	A3	4,414,293	11.08.83	Joy et al.			
	A4	5,166,011	11.24.92	Rao et al.			
	A5	6,228,527	05.08.01	Medeiros et al.			
	A6	2001/041294 A1	11.15.01	Chu et al.			
↓	A7	6,911,280 B1	06.28.05	De Jonghe et al.			
GC	A8	6,030,720	02.2000	Chu et al.			

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
GC	B1	2005/038962 A2	28.04.05	PCT				
GC	B2	2005/038953 A2	28.04.05	PCT				


Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
GC	C1	International Search Report dated March 6, 2006 from International Application No. PCT/US2004/033424. (PLUSP036WO)
↓	C2	Galbraith, A.D., "The lithium-water-air battery for automotive propulsion," XP002355800, Symp. Int. Veh. Electr., [RAPP.], 4 th , Vol. 1, Paper 32.4, 23 pp. publisher: Electr. Veh. Counc., 1976, Chemical Abstract Service
GC	C3	West, et al., "Chemical stability enhancement of lithium conducting solid electrolyte plates using sputtered LiPON thin films," Journal of Power Sources, Volume 126, Issues 1-2, Pages 1-272 (16 February 2004)
Examiner /Gregg Cantelmo/		Date Considered 11/21/2006

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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
GC	A23	3,625,769	07.12.71	Lyall, Arthur E.			
	A24	3,976,509	08/24/76	Tsai et al.			
	A25	4,007,057	02/08/77	Littauer et al.			
	A26	5,108,856	04/28/92	Shuster			
	A27	5,427,873	06/27/95	Shuster			
	A28	5,525,442	06/11/96	Shuster			
	A29	6,146,787	11/14/00	Harrup et al.			
	A30	5,510,209	04/23/96	Abraham et al.			
	A31	5,652,068	07/29/97	Shuster et al.			
	A32	5,665,481	09/09/97	Shuster et al.			
	A33	4,163,084	07/31/79	Tsai et al.			

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
GC	B3	09320645	12.12.97	Japan (abstract)				
GC	B4	JP 55081471	1980/06/19	Japan				

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
GC	C2	International Search Report dated October 18, 2005 from related International Application No. PCT/US2004/033372. [PLUSP039]
	C3	U.S. Office Action mailed June 16, 2006, from U.S. Application No. 11/092,781. [PLUSP026C1]
	C4	De Jonghe, et al., "Chemical Protection of a Lithium Surface," PolyPlus Battery Company, Appln. No. 11/092,781, filed March 28, 2005, pages 1-34 [PLUSP026C1].
	C5	U.S. Office Action mailed September 7, 2006, from U.S. Application No. 10/824,944. [PLUSP040]
	C6	Visco et al., "Protected Active Metal Electrode and Battery Cell Structures with Non-Aqueous Interlayer Architecture," PolyPlus Battery Company, Appln No. 10/824,944, filed April 14, 2004, pages 1-46. [PLUSP040]
GC	C7	Visco et al., "Active Metal Fuel Cells," PolyPlus Battery Company, Appln No. 10/825,587, filed April 14, 2004, pages 1-27. [PLUSP038]
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Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
GC	C9	International Search Report dated January 16, 2006 from International Application No. PCT/US2004/033361.
	C10	Inaguma et al., "High Ionic Conductivity in Lithium Lanthanum Titanate", Solid State Communications, Vol. 86, No. 10, pp. 689-693, 1993.
	C11	Kobayashi et al., "All-solid-state lithium secondary battery with ceramic/polymer composite electrolyte", Solid State Ionics 152-153 (2002) 137-142.
	C12	Shuster, Nicholas, "Lithium Water Power Source for Low Power - Long Duration Undersea Applications", Westinghouse Electric Corporation, 1990 IEEE, pp. 118-123.
	C13	VanVoorhis, et al., "Evaluation of Air Cathodes for Lithium/Air Batteries", Electrochemical Society Proceedings Volume 98-16, 1999, pp. 383-390.
	C14	Blurton et al., "Metal/Air Batteries: Their Status and Potential - A Review", Journal of Power Sources, 4, (1979), pp. 263-279.
	C15	J. Read, "Characterization of the Lithium/Oxygen Organic Electrolyte Battery", Journal of The Electrochemical Society, 149 (9) (2002), pp. A1190-A1195.
	C16	Abraham et al., "A Polymer Electrolyte-Based Rechargeable Lithium/Oxygen Battery", Technical Papers, Electrochemical Science and Technology, J. Electrochem. Soc., Vol. 143, No. 1, January 1996, pp. 1-5.
	C17	Kessler, et al., "Large Microsheet Glass for 40-in. Class PALC Displays", 1997, FMC2-3, pp. 61-63.
	C18	Feng et al., "Electrochemical behavior of intermetallic-based metal hydrides used in Ni/metal hydride (MH) batteries: a review", International Journal of Hydrogen Energy, 26 (2001), pp. 725-734.
	C19	Iwakura et al., "All solid-state nickel/metal hydride battery with a proton-conductive phosphoric acid-doped silica gel electrolyte", Electrochimica Acta 48 (2003), pp. 1499-1503.
	C20	Li et al., "Lithium-Ion Cells with Aqueous Electrolytes", J. Electrochem. Soc., Vol. 142, No. 6, June 1995, pp. 1742-1746.
	C21	Zhang et al., "Electrochemical Lithium Intercalation in VO ₂ (B) in Aqueous Electrolytes", J. Electrochem. Soc., Vol. 143, No. 9, September 1996, pp. 2730-2735.
↓	C22	Urquidi-Mcdonald, Mirna, "Hydrogen storage and semi-fuel cells", http://engr.psu.edu/h2e/Pub/Macdonald1.htm , (downloaded January 27, 2004, 3 pages).
GC	C23	Urquidi-Mcdonald, et al., "Lithium/poly(organophosphazene) membrane anodes in KOH and seawater", Electrochimica Acta 47, (2002), pp. 2495-2503.
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GC	A34	5,532,077	07.02.96	Chu			
	A35	5,523,179	06.04.96	Chu			
	A36	5,582,623	12.10.96	Chu			
	A37	6,248,481	11.11.97	De Jonghe et al.			
	A38	5,882,812	03.16.99	De Jonghe et al.			
	A39	5,516,598	05.14.96	Chu et al.			
	A40	6,358,643	03.19.02	Katz et al.			
	A41	5,814,420	09.29.98	Chu			
	A42	4,917,974	04.17.90	Visco et al.			
	A43	4,833,048	05.23.89	De Jonghe et al.			
	A44	5,162,175	11.10.92	De Jonghe et al.			
	A45	6,723,140	04.20.04	Chu et al.			
	A46	6,198,701	03.06.01	De Jonghe et al.			
	A47	6,165,644	12.26.00	Chu et al.			
	A48	6,017,651	01.25.00	Chu et al.			
	A49	6,537,701	03.25.03	Chu et al.			
	A50	6,955,866	10.18.05	Nimon et al.			
	A51	6,200,704	03.13.01	De Jonghe et al.			
	A52	6,210,832	04.03.01	Chu et al.			
	A53	6,110,236	08.29.00	Chu et al.			
	A54	6,225,002	05.01.01	Chu et al.			
	A55	6,413,285	07.02.02	De Jonghe et al.			
	A56	6,632,573	10.14.03	Nimon et al.			
	A57	7,070,632	07.04.06	Visco et al.			
GC	A58	6,991,662	01.31.06	Visco et al.			

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
GC	C24	Visco, et al., "Ionically Conductive Composites for Protection of Active Metal Anodes," PolyPlus Battery Company, Appln. No. 10/686,189, filed October 14, 2003, pages 1-48 [PLUSP027].
	C25	Jonghe, et al., "Active Metal Electrolyzer," PolyPlus Battery Company, Appln. No. 10/986,441, filed November 10, 2004, pages 1-39 [PLUSP042].
	C26	Visco, et al., "Active Metal/Aqueous Electrochemical Cells and Systems," PolyPlus Battery Company, Appln. No. 10/772,157, filed February 3, 2004, pages 1-89 [PLUSP036].
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